

# TIPOLEN® FD 243-51

Low Density Polyethylene  
MOL Petrochemicals Co. Ltd.

Message:

TIPOLEN FD 243-51 is a film grade of low density polyethylene. The films made of this grade have excellent mechanical and optical properties. The grade does not contain any additives.

Applications

TIPOLEN FD 243-51 is intended for high clarity fine films, caps. Recommended film thickness is 0.04-0.08 mm.

TIPOLEN FD 243-51 is suitable for food contact and for manufacturing of pharmaceutical packing products. The product complies with Food Contact and Pharmaceutical Regulations.

General Information			
Features	Additive Free		
	Food Contact Acceptable		
	Good Processability		
	High Clarity		
	Opticals		
	Recyclable Material		
Uses	Caps		
	Film		
Forms	Pellets		
Processing Method	Blown Film		
	Film Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.922	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	48		ISO 868
Films	Nominal Value	Unit	Test Method
Film Thickness - Tested	40	µm	
Film Thickness - Recommended / Available	0.04 to 0.08 mm		
Tensile Strength			ISO 527-3
MD : 40 µm, Blown Film	20.0	MPa	
TD : 40 µm, Blown Film	19.0	MPa	
Tensile Elongation			ISO 527-3
MD : Break, 40 µm, Blown Film	330	%	
TD : Break, 40 µm, Blown Film	620	%	
Dart Drop Impact (40 µm, Blown Film)	85	g	ISO 7765-1

Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	92.0	°C	ISO 306/A120
Optical	Nominal Value	Unit	Test Method
Haze (40.0 μm, Blown Film)	7.0	%	ISO 14782
Extrusion	Nominal Value	Unit	
Melt Temperature	170 to 190	°C	

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#### Recommended distributors for this material

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